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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/023,887	12/21/2001	Keith Alexander Harrison	30003064-2	5605
75	90 08/15/2006		EXAM	INER
HEWLETT-PACKARD COMPANY			WILLIAMS, JEFFERY L	
Intellectual Prop	erty Administration		<u> </u>	
P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER
			2137	
			DATE MAILED: 08/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Symmony	10/023,887	HARRISON, KEITH ALEXANDER				
Office Action Summary	Examiner	Art Unit				
	Jeffery Williams	2137				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 Ju	ne 2006					
	action is non-final.					
· <u> </u>		secution as to the merits is				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,,					
4) Claim(s) 1-46 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-46</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
of Claim(s) are subject to restriction and/or	cicolon requirement.					
Application Papers						
9) The specification is objected to by the Examine	r .					
10)⊠ The drawing(s) filed on 11 September 2002 is/a	re: a)⊠ accepted or b)□ object	ted to by the Examiner.				
Applicant may not request that any objection to the	frawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	- · ·	·				
11) The oath or declaration is objected to by the Ex		, ,,				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:	. , , , , , , , , , , , , , , , , , , ,					
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		on No				
3. ☐ Copies of the certified copies of the prior	•					
application from the International Bureau	•	a in this National Stage				
* See the attached detailed Office action for a list of	, , , ,	d				
Coo the attached detailed Office action for a list t	or the certified copies flot receive	u,				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	() () () () ()				

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1	DETAILED ACTION			
2				
3	This action is in response to the communication filed on 6/13/06.			
4	All objections and rejections not set forth below have been withdrawn.			
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7	Claim Rejections - 35 USC § 112			
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9	The following is a quotation of the second paragraph of 35 U.S.C. 112:			
10 11 12	The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.			
13	Claims 18 and 34 are rejected under 35 U.S.C. 112, second paragraph, as			
14	being indefinite for failing to particularly point out and distinctly claim the subject			
15	matter which applicant regards as the invention.			
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17	Claims 18 and 34 recite the limitation "the secret that is input by the user" in line			
18	5. There is insufficient antecedent basis for this limitation in these claims. For the			
19	purpose of examination, the examiner will presume the applicant to mean "the secret".			
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Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 3 – 10, 13 – 17, 19 – 26, 29 – 33, 35 – 42, 45, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khello, "Method and Apparatus for User Authentication", U.S. Patent 5,724,423. in view of Tuneld et al., "Mobile Telephone Auto PC Logon", WO 00/31608.

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Regarding claim 17, Khello discloses:

a personal communication device, the personal communication device comprising a memory in which is stored a secret (Khello, fig. 3; elems. 29, 34; col. 2, line 63 - col. 3, line 11; col. 8, lines 27-46). Khello discloses memory utilized to store secrets such as a user PIN (a secret that is provided and is held for processing), encoding keys, and secret encoding algorithms.

and a digital device capable of communication with the personal communication device (Khello, fig. 4),

the personal communication device being configured whereby upon the digital device requesting a secret from the personal communication device, the personal

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1 communication device requests confirmation from a user that the secret can be

2 provided and provides the secret to the digital device only if the confirmation is provided

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by the user (Khello, col. 1, lines 26-32; col. 6, lines 5-30).

Khello does not disclose that a secret is stored *prior to a user of the personal* communication device being supplied with the personal communication device.

Tuneld discloses that secrets can be stored in a memory of a personal communication device prior to a user having the personal communication device made available for use [being supplied with] (Tuneld, pg. 1, lines 18-26; pg. 2, lines 15-24; pg. 4, lines 13-15). Herein, Tuneld discloses that a secret ("subscriber" or "identification" information which is encrypted before transmission to an authenticating system) is stored in a memory that is designed for use within a chosen mobile phone. A particular phone that a user wishes to utilize is equipped with a SIM storing a secret, and thus, the user is "supplied with the personal communication device". As explained by Tuneld, this arrangement, allows a user to authenticate herself to a system (i.e. a computer) wherein difficult to remember identification information (i.e. logon identifications, passwords, authentication codes) need not be memorized by the user.

It would have been obvious to one of ordinary skill in the art to employ the teachings of Tuneld within the system of Khello. This would have been obvious because one of ordinary skill in the art would have been motivated to enhance system usability by allowing users to supply pre-stored identification information for authentication instead of burdening users with the requirement to remember and manually enter difficult secrets so as to access a system or service.

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Regarding claim 19, the combination of Khello and Tuneld discloses:

in which the secret is encrypted in the memory and the digital device is capable of decrypting the secret (Khello, col. 6, lines 20-30, 47-67; col. 7, lines 17-36).

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Regarding claim 20, the combination of Khello and Tuneld discloses:

in which the secret is encrypted according to a key provided by the digital device and in which the encrypted secret is not transmitted out to the digital device until an appropriate password is provided by the user to the personal communication device, at which time the encrypted secret is output to the digital device by way of the personal communication device (Khello, col. 7, lines 17-36; col. 8, lines 27-55; Abstract, lines 12-14). The combination of Khello and Tuneld discloses that the user authentication service provides the personal communication device with a program for analogously deriving the identical key (thus providing a key) as well as secret encryption algorithms for encrypting the PIN. Furthermore, herein, the combination of Khello and Tuneld show that the user provides an appropriate secret before an output by the personal communication device.

Regarding claim 21, the combination of Khello and Tuneld discloses:

in which the confirmation comprises the user providing a secret (Khello, col. 6, lines 20-30).

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1 Regarding claim 22, the combination of Khello and Tuneld discloses:

in which to request the secret, the digital device is configured to establish contact
with the personal communication device and the personal communication device is
configured to indicate to the user that a request for a secret has been received (Khello,
col. 5, line 57 – col. 8, line 30).

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Regarding claims 23 and 24, the combination of Khello and Tuneld discloses:

in which the indication comprises providing an audible signal and in which the indication comprises providing a visual signal (Khello, col. 6, lines 20-30).

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Regarding claim 25, the combination of Khello and Tuneld discloses:

in which the personal communication device is configured whereby upon receipt of the request the personal communication device provides to the user a selection of options of which at least one is to approve the request by selecting the relevant option (Khello, col. 8, lines 20-47; col. 9, lines 50-55). The combination of Khello and Tuneld discloses that the personal communication device provides to the user the ability to select one from a plurality of "secrets" (secret encryption algorithms) so as to uniquely encode a PIN and then transmit the PIN to the user authentication center.

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Regarding claim 26, the combination of Khello and Tuneld discloses:

in which the memory stores a plurality of secrets and the personal communication device is configured to provide a user with plurality of secrets from

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1 which to select the secret to be provided to the digital device (Khello, col. 8, lines 20-47;

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2 col. 9, lines 50-55). The combination of Khello and Tuneld discloses that the personal

communication device provides to the user the ability to select one from a plurality of

4 "secrets" (secret encryption algorithms), stored in the device memory, so as to uniquely

encode a PIN and then transmit the PIN to the user authentication center.

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Regarding claim 29, the combination of Khello and Tuneld discloses:

in which the digital device is a non-cellular device (Khello, fig. 1, elem. 20).

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communication device.

Regarding claim 30, the combination of Khello and Tuneld discloses:

in which the digital device comprises a modem for communication with the personal communication device (Khello, fig. 1, elem. 18; fig. 4, elem. 48). The combination of Khello and Tuneld discloses the digital device as comprising a communication device for receiving telecommunications (a "modem") from the personal

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Regarding claim 31, it is rejected for the same reason as claim 17, and further because the combination of Khello and Tuneld discloses:

the personal communication device is configured to request confirmation from a user that the secret can be provided and provides the secret to the digital device only if the confirmation is provided by the user (Khello, col. 6, lines 20-30). The secret is provided only when the user initiates ("confirms") the transmission of the secret.

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Regarding claim 32, it is rejected for the same reason as claims 17 and 25.

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Regarding claims 1, 3 - 10, 13 - 16, 33, 35 - 42, and 45, and 46, they are the method and apparatus claims corresponding to the system claims above, and they are rejected for the same reasons.

Claims 2, 18, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Khello and Tuneld in view of Pellerin, "Telecommunications Card-Access System", U.S. Patent 5,497,411.

Regarding claim 18, the combination of Khello and Tuneld discloses:

in which the communication capable of being established between the personal communication device and the digital device is wireless communication (Khello, col. 5, lines 46 – 65). The combination of Khello and Tuneld discloses that users may access services using a personal communications device, wherein a secret stored in a memory of the radiotelephone is transmitted for authentication. The combination does not disclose wherein the personal communication device comprises: means for providing a quick reference descriptor for the secret [that is input by the user]; and display means for displaying the secret and the quick reference descriptor to enable the user to select an appropriate secret stored in the memory.

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Like the combination of Khello and Tuneld, Pellerin discloses a system that enables a user to access services using a personal communications device. Memory of a personal communications device may contain a plurality of secrets, and the user may insert the memory of the personal communications device into the personal communications device and subsequently select the appropriate secret to send. The user selects the appropriate secret by selecting from a plurality of descriptors that a displayed to the user by the personal communications device (Pellerin, fig. 2; 4:5-25; 5:50-67; 6:24-58). Pellerin describes that such a system (of storing a plurality of secrets on a memory of a personal communication device wherein the user may select an appropriate secret from among a plurality of displayed secrets) provides "individual users with a secure, password protected easy-to-use method of carrying and utilizing a plurality of access codes and passwords" (Pellerin, 2:59-62).

It would have been obvious to combine the teachings of Pellerin within the system of Khello and Tuneld. This would have been obvious because one of ordinary skill in the art would have been motivated to provide system versatility and ease of use wherein a user may utilize a single device to authenticate to a multitude of services and wherein the user may easily select the appropriate secrets necessary for such authentication.

Regarding claims 2 and 34, they are rejected, at least, for the same reasons.

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Claims 11, 12, 27, 28, 43, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Khello and Tuneld in view of Hayashi 4 et al., "Connection of a Mobile Wireless Terminal to a Host Computer", GB

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Regarding claims 27, the combination of Khello and Tuneld discloses using a portable radiotelephone for authenticating a user to a remote system. The combination of Khello and Tuneld does not disclose that the radiotelephone is a cellular communication device.

Hayashi et al. discloses using a portable radiotelephone for authenticating a user to a remote system. The portable radiotelephone of Hayashi et al. is a cellular communication device (Hayashi et al., fig. 1; page 7, line 14 – page 8, line 3).

It would have been obvious to one of ordinary skill in the art to employ the teaching of using cellular technology with portable radiotelephones of Hayashi et al. with the portable radiotelephone system of the combination of Khello and Tuneld. This would have been obvious because one of ordinary skill in the art would have been motivated to enhance the service provided to radiotelephone users as cellular technology would handle simultaneous connections on the same frequencies, accommodate more subscribers than would a single central antenna, provide mobile

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- users with better reception via cell switching, as well as provide numerous other 1
- 2 benefits cellular technology has over the older central antenna radio systems.
- 3 Thus the combination of Khello, Tuneld and Hayashi et al., discloses:
- in which the personal communication device comprises a cellular communication 4
- 5 device (Khello, fig. 1, elem. 12; Hayashi et al., fig. 1).

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- 7 Regarding claim 28, the combination of Khello, Tuneld and Hayashi et al.,
- 8 discloses:
- in which the personal communication device comprises a cellular telephone for 9
- 10 voice calls (Khello, col. 5, line 57 - col. 6, line 9).

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- Regarding claims 11, 12, 43, and 44, they are the method and apparatus claims 12
- 13 corresponding to the system claims above, and they are rejected for the same reasons.

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Response to Arguments

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- Applicant's arguments with respect to claims 1 46 have been considered but
- 19 are moot in view of the new ground(s) of rejection.

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- 21 Applicant's arguments filed 6/13/06 have been fully considered but they are not
- 22 persuasive.

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2 Applicants argue primarily that:

4 (i) As explained in the previously-filed response, in Khello, a user ...

Page 4, lines 24-25 of the Office Action acknowledges this distinction, but incorrectly refers to Tuneld for allegedly disclosing this feature. (Remarks, pg. 12)

In response, the examiner respectfully notes that it appears the applicant's have misinterpreted the rejection. Page 4, lines 24-25 of the Office Action simply states that Khello does not disclose "that a secret is stored prior to a user of the personal communication device acquiring the personal communication device".

Furthermore, as may be seen in the claim rejections, the reference of Tuneld is relied upon to show that a secret may be stored in a memory of a device before the device is available for utilization in the system to the user. The examiner finds the applicant's arguments to be unpersuasive.

(ii) Page 1, lines 18-21 of Tuneld (cited in the Office Action as allegedly disclosing features missing in Khello) merely describes a SIM card, and says noting about when information is stored in that SIM card. (Remarks, pg. 12)

In response, the examiner respectfully points out that the Office Action also cited pg. 2, lines 15-24 and pg. 4, lines 14-18 of Tuneld. As is shown, Tuneld reveals that

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1 information is stored in a memory of the communication device, at the very least, prior

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2 to a user adopting a communication device for utilization within the system. The

examiner finds the applicant's arguments to be unpersuasive.

(iii) Page 2, lines 15-24 of Tuneld (cited in the Office Action as allegedly disclosing features missing in Khello) describes that a user is require to enter in a Personal Identification Number (PIN), prior to be allowed access to a computer. Like the other recited portion of Tuneld, this does not teach or suggest the above-mentioned features of the presently pending claims in which a secret is stored in a memory of the personal communication device **prior to a user** of the personal communication device **being**

supplied with the personal communication device. (Remarks, pg. 12, 13)

In response, the examiner respectfully points out that the Office Action also cited pg. 2, lines 15-24 and pg. 4, lines 14-18 of Tuneld. As explained in the above rejections and examiner's response, Tuneld discloses a secret stored prior to a user being supplied with the personal communication device. The examiner further points out Tuneld reveals that, before a secret stored in the SIM is allowed to be transmitted, a user must verify her authorization by entering a PIN (another secret which is also stored in the SIM) (Tuneld, 1:9 – 4:18). Additionally, the examiner finds it relevant to mention that this is the operation as described in the applicant's own disclosure, wherein a user must first enter a PIN before a secret may be transmitted to the authenticator (Instant Application, par. 48). The examiner finds the applicant's arguments to be unpersuasive.

process of the SIM 120. (Remarks, pg. 13)

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2 (iv) Lastly, page 4, lines 14-18 of Tuneld (cited in the Office Action as allegedly 3 disclosing the features missing in Khello) describes that a user inserts a SIM 120 into a 4 mobile telephone. However, in the presently claimed invention, the SIM has already 5 stored within it one or more secrets, prior to a user being supplied with the phone. 6 Clearly, page 4, lines 14-18 of Tuneld teaches that the user has been supplied with a 7 mobile phone 110, whereby the user can then insert a SIM 120 into the mobile phone 8 110, and whereby the user can then presumably store information into the SIM 120 9 separate from information already stored in the SIM 120 during a manufacturing

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In response, the examiner respectfully points out that the Office Action also cited pg. 2, lines 15-24 and pg. 4, lines 14-18 of Tuneld. Furthermore, the examiner respectfully asserts that the applicant has mischaracterized the reference of Tuneld. Tuneld does not disclose that a user is *supplied with a mobile phone 110*, *whereby the user can then insert a SIM... and whereby the user can then presumably store information into the SIM.*

Clearly, as the applicant demonstrates, a memory may be configured at various points in time (Instant Application, par 38 – 41). Tuneld also demonstrates that memory is able to be configured at various points in time (Tuneld, pg. 5). However, contrary to the applicant's assertions ("the user can then presumably store information into the SIM"), Tuneld merely describes such configuration of the SIM as necessary "in order for

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a user to implement the present invention" (Tuneld, 5:1). Clearly, once a SIM is 1 2 configured to store a secret, it need not then have the user ["then presumably store 3 information" store the secret in the SIM each time the SIM is used to authenticate the 4 user. The examiner respectfully directs the applicant's attention to the reference of 5 Tuneld wherein a user selects a phone, inserts a memory of the phone, and exchanges 6 secret information contained in a memory of the phone with an authenticator (Tuneld, 7 1:18-21; 2:19-23; 4:12-18). Tuneld does not describe that the user must select a 8 phone, insert a SIM, program the SIM with information ... separate from information 9 already stored in the SIM 120 during a manufacturing process, and then authenticate to 10 an authenticator. The examiner finds the applicant's arguments to be unpersuasive. 11 12 13 Conclusion 14 15 The prior art made of record and not relied upon is considered pertinent to 16 applicant's disclosure. 17 18 See Notice of References Cited

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

A shortened statutory period for reply is set to expire 3 months (not less than 90 days) from the mailing date of this communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery Williams whose telephone number is (571) 272-7965. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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1 Information regarding the status of an application may be obtained from the

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- 2 Patent Application Information Retrieval (PAIR) system. Status information for
- 3 published applications may be obtained from either Private PAIR or Public PAIR.
- 4 Status information for unpublished applications is available through Private PAIR only.
- 5 For more information about the PAIR system, see http://pair-direct.uspto.gov. Should
- 6 you have questions on access to the Private PAIR system, contact the Electronic
- 7 Business Center (EBC) at 866-217-9197 (toll-free).

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10 J. Williams

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EMMANUEL L. MOISE SUPERVISORY PATENT EXAMINER